

Optimizing the Metabolic Stability of Phosphodiesterase 5 Inhibitors

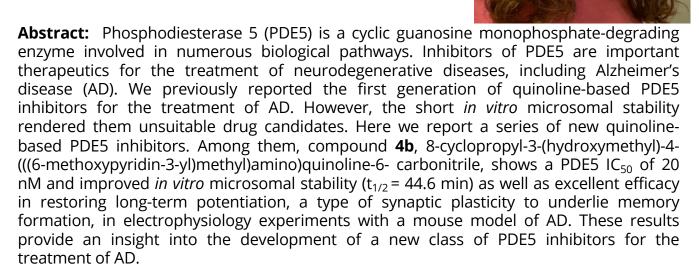
Dr. Jole Fiorito

Assistant Professor

Department of Biological and Chemical Sciences

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Thursday, March 7, 2024 6:45 PM via Zoom (Registration required prior to event) Click here to register



Biography: Dr. Jole Fiorito earned a Master of Science in Pharmaceutical Chemistry and her Ph.D. in Pharmaceutical Sciences from the University of Catania, Italy.

Following graduate school, she became a post-doctoral researcher at Columbia University in the TAUB Institute for Research on Alzheimer's Disease and the Aging Brain (Dr. Arancio Lab) and the Organic Chemistry Collaborative Center (Dr. Landry Lab). While at Columbia, she developed novel compounds that inhibit phosphodiesterase 5 (PDE5) enzymes and increase the phosphorylation of the transcriptional factor CREB through the nitric oxide signaling pathway, which is found to be impaired in Alzheimer's disease. These technologies are patent pending and have already generated interest from the pharmaceutical industry.

Currently, Dr. Fiorito's research interests are in developing multi-target small molecules against both HAT and PDE5 enzymes that are involved in several multifactorial diseases such as Alzheimer's disease and cancer. Dr. Fiorito has received an NIH Research Enhancement Award (R15) to conduct this research. She hopes her research will lead to novel disease-modifying therapeutics that can address unmet clinical needs.